Reply to Office action of: 05/07/2004 Attorney Docket No.: ARC920000091US1

REMARKS

Applicant respectfully submits that all the claims presently on file are in a condition for allowance, which action is earnestly solicited.

THE CLAIMS

Claim Rejection under 35 USC 102

Claims 1-9, 19-31, and 33-39 were rejected under 35 U.S.C. 102(a) as being anticipated by De La Huerga, US patent 5,960,085. Applicant respectfully submits that De La Huerga does not disclose all the elements and limitations of the rejected claims. Consequently, claims 1-9, 19-31, and 33-39 and the claims dependent thereon are not anticipated under 35 U.S.C. 102, and the allowance of these claims is earnestly solicited. In support of this position, Applicant submits the following arguments:

A. Legal Standard for Lack of Novelty (Anticipation)

The standard for lack of novelty, that is, for "anticipation," is one <u>of strict</u> <u>identity</u>. To anticipate a claim for a patent, a <u>single prior source must contain</u> all its essential elements, and the <u>burden of proving</u> such anticipation is on the party making such assertion of anticipation. Anticipation <u>cannot</u> be shown by combining more than one reference to show the elements of the claimed invention. The <u>amount of newness and usefulness need only be minuscule to</u> avoid a finding of lack of novelty.

Reply to Office action of: 05/07/2004 Attorney Docket No.: ARC920000091US1

The following are two court opinions in support of Applicant's position of non anticipation, with emphasis added for clarity purposes:

- "Anticipation under Section 102 can be found only if a reference shows
 <u>exactly</u> what is claimed; where there are <u>differences</u> between the reference
 disclosures and the claim, a rejection must be based on obviousness under
 Section 103." *Titanium Metals Corp. v. Banner*, 778 F.2d 775, 227 USPQ 773
 (Fed. Cir. 1985).
- "Absence from a cited reference of any element of a claim of a patent negates anticipation of that claim by the reference." Kloster Speedsteel AB v. Crucible Inc., 793 F.2d 1565, 230 USPQ 81 (Fed. Cir. 1986), on reheating, 231 USPQ 160 (Fed. Cir. 1986).

B. Brief Summary of the Present Invention

Prior to presenting substantive arguments in favor of the allowability of the claims on file, it might be desirable to briefly review the present invention. The present invention generally relates to the use of personal encoded identification media for <u>providing time-limited access</u> to people, objects, information, services, and other resources.

A specific feature of the <u>time-limited tracking system is to provide concurrent</u> <u>time-limited access</u> to a large number of people, objects, information, services, and other resources that are collectively referred to as "resources". For example, <u>the time-limited tracking system allows persons to be tracked only during</u> <u>predetermined (or selected) hours, such as regular business hours, but not during undesirable (or unavailable) hours, such as lunch or break times</u>. This will allow privacy of movement during the employee's personal time.

Alternatively, the <u>Ilme-Ilmited tracking system could be automatically fled to</u> events in a person's or group's calendar, to allow tracking during important

Reply to Office action of: 05/07/2004 Attorney Docket No.: ARC920000091US1

meetings or phone calls, so that an assistant might try to locate individuals during these important events.

The foregoing and other objects and features of the present invention are realized by a time-limited tracking system that includes a transmitter module incorporated in an ID badge, card, or label, and a receiver module incorporated in a secure server. The transmitter module contains a microprocessor and a watch crystal that keeps track of time. <u>The microprocessor encrypts time with a private, non-public key</u>, and transmits the encrypted time once every ten seconds. The transmission can be any wireless means, including infrared, radio frequency, electric field, magnetic field, ultrasonics, and so forth. The limited tracking system is capable of individually tracking a large number of receivers that are distributed about one or multiple tracking environments or ranges.

The secure server stores the private keys of all the users (or receivers). The user of the badge can give a third party, or multiple parties, referred to herein as finder, access to the user for specified time periods. As an example, if the user wishes to give the finder tracking access for specific time periods, the user instructs the server to deliver a list of encrypted codes with the user's private key for these time periods. This list can be transmitted or otherwise provided to the finder for storage on the finder's own server. When the finder detects a transmission from the user's badge, the finder's server looks up the current value of the user's badge from the list and compares it to the encrypted code it received from the badge. If a match exists, the finder would have identified and located the user.

The present invention sends the encrypted temporal sequence that

Reply to Office action of: 05/07/2004 Attorney Docket No.: ARC920000091US1

appears to the observer as a random number, <u>and which does not contain a public ID</u>, thus preventing an observer from identifying and tracking the <u>location of a badge</u>.

C. Independent Claim 1 in Light of De La Huerga

The following claim chart lists the elements of claim 1, the rejection grounds made by the Examiner, and the outline of Applicant's arguments.

Reply to Office action of: 05/07/2004 Attorney Docket No.: ARC92000091UST

CLAIM CHARI

Ci Aite 1	EANIMED'S DELECTION COOLING	ABDIC ANT'S ABCIIMENTS
	ENVIRONMENT OF THE PROPERTY	
1. A tracking system for use	De La Huerga discloses a tracking	1. De La Huerga coes not teach time-
with an identification	system for use with an identification	limited cccess to resources; it teaches
medium to provide <u>lime</u> -	rrecium to provide time-limit access	an authentication method without
l <u>imit access</u> to a resource,	to a resource, comprising:	means for temporally limiting access.
comprising:		
a transmitter module	A transmitter module secured to the	
secured to the identification	identification redium; (Column 9, lines	
medium;	20-33).	
a receiver module in	A receiver module in selective	
selective communication	communication with the transmitter	
with the transmitter module;	module; (Column 9, lines 34-49).	
the transmitter module	The transmitter module including an	2. De La Huerga coes not teach how
including an encryptor and	encryptor and a time generator that	"time stamps" may be used to provide
a time generator that	generates a fismparal sequence of	temporal limits on resource access. The
generates a temporal	values(T _{Bn}), wherein the encryptor	"time stamps" taught in De La Huergc
sequence of values (IBn).	encrypts the temporal sequence of	are used to log data on the security
wherein the encryptor	values (Tm) with a private key Kn which	card or as an audit tool for marking
encrypts the temporal	is unique to the identification medium	events and data recorded on the
sequence of values (T _{Bn})	to generate a code list composed of	badge (Figure 10).
with a private, non-public	encrypted node elements (Tm) Kn, and	
key Ko which is unique to	wherein the transmitter module	
the identification medium to	fransmits one or more encrypted code	
generate a code list	elements (T _{Bn}) K _n to the receiver	
composed of encrypted	module; where the time generator	
code elements (T _{Bn})K _n , and	generates the sequence of values as	
wherein the tronsmitter	timestamps (Column 21, lines 45-50) &	

Application Serial No.: 09/672,360 Amendment dated: 08/02/2004

Reply to Office action of: 05/07/2004
Attorney Docket No.: ARC92000091US1
[Column 19, lir es 17-33], and <u>where</u>

								3. De La Huerga authentication of the	"timestamps" cs explained by the	Examiner in connection with the	previous element is not analogous to	authenticating temporal sequences of	values (In) that are encrypted	with a private key Kn.										
(Column 19, lir es 17-33), and where	the code list of encrypted elements is	the list of the tinnestamps and other	information on the smartcard used to	form the audit trail (Column 19, lines	49-64), and where this information is	encrypted on the with the private key	(Column 16, lires 7-15)	A server, connected to the receiver	module, for staing the private key of	the identification medium, and	including an authenticator that	authenticates one or more of the	encrypted code elements of the code	list, where the private keys may be	stored on a separate security	verification system or on computer	terminal 60, itself. (Column 12, lines 33-	39).						
module transmits one or	more encrypted code	elements (T _{In})K _n to the	receiver module; and					a server, connected to the	receiver module, for storing	the private key of the	identification medium, and	including an authenticator	that autherticates one or	more of the encrypted	code elements of the code	list; and	wherein the private key is	available only to the server	and to the identification	medium, thus preventing an	observer from identifying	and tracking the	identification medium.	

Reply to Office action of: 05/07/2004 Attorney Docket No.: ARC920000091US1

C. 1. De La Huerga does not teach time-limited access to resources

As indicated in the little of the present application, in the specification, and in the claims, a distinctive and important feature is to provide time-limit access to resources. As an example, and as explained above in the "Brief Summary of the Present Invention," the present invention limits the time that a system may track an individual to business hours but not during lunch breaks. De La Huerga does not teach time-limited access. In conclusion, the present invention teaches time-limited access to resources, while the relied upon reference teaches an authentication method without any means to temporally limit access.

C. 2. De La Huerga's time stamps do not provide temporal limits on resource access.

De La Huerga teaches limiting access to computer networks through cryptographic exchange (reference is made to Col. 4, lines 59-63), much like a password limits computer access. The "time stamps" taught in De La Huerga (Col. 21, lines 48-50) are used to log data on the security card, for example associating a medication dispensation record with the badge wearer (Col. 22, lines 5-9). De La Huerga does not teach how "time stamps" may be used to provide temporal limits on resource access. Rather, De La Huerga teaches how "time stamps" may be used as an audit tool for marking events and data recorded on the badge (Figure 10).

Reply to Office action of: 05/07/2004 Attorney Docket No.: ARC920000091US1

C. 3. De La Huerga authentication of the "timestamps" is not analogous to authenticating temporal sequences of values (TBn) that are encrypted with a private key Kn.

The Examiner states "where the code list of encrypted elements is the list of the timestamps", effectively equating (or analogizing) the encrypted elements with temporal sequences of values (T_{Bn}) that are encrypted with a private key K_n. However, as presented earlier, such analogy in hind sight is not appropriate.

More specifically, De La Huerga teaches a security badge that sends a key ID tag which a receiving station uses to locate a public key identification signal (Col. 15 lines 56-61 and Col. 16 lines 12-14). An interrogation station can use the key ID to associate a person with a badge, and track the person without knowing their private key. The present invention sends an encrypted temporal sequence, which appears to the observer as a random number, and which does not contain a public ID, thus preventing an observer from identifying and tracking the location of a badge.

The "Background of the Invention" section of the present application clearly distinguishes over conventional systems (such as De La Huerga) that use public keys, and clearly indicates at page 13 lines 4-8 (of the present application), "that the signal or code transmitted by the badge Bn, includes the badge's time encrypted by the private key Xn, but does not include a public ID as was taught by conventional tracking systems. As a result, the encrypted code transmitted by the badge Bn can only be decrypted by a private, non-public key which is available only to the server 40 and to the badge Bn."

Reply to Office action of: 05/07/2004 Attorney Docket No.: ARC920000091US1

To conclude, independent claim 1 is allowable for not being anticipated by De La Huerga, and the allowance of claim 1 and the claims dependent thereon (Claims 2-19) is respectfully requested.

D. Independent Claims 21 and 23 in Light of De La Huerga

Independent claims 21 and 23 are not anticipated by De I a Huerga for containing generally similar elements and limitations as in claim 1. As a result, claims 21 and 23 and the claims dependent thereon (claims 22 and 24-39) are allowable, and such allowance is respectfully requested.

Claims Rejection under 35 USC 103

Claims 10-18, and 32 were rejected under 35 U.S.C. 103(a) as being unpatentable over De La Huerga. Applicant respectfully submits that this rejection is now most since claims 10-18 depend on the allowable claim 1; and claim 32 depends on the allowable claim 23. Applicant respectfully requests that the allowance of claims 10-18, and 32 be confirmed.

Reply to Office action of: 05/07/2004 Attorney Docket No.: ARC920000091US1

CONCLUSION

All the claims presently on file in the present application are in condition for Immediate allowance, and such action is respectfully requested. If it is felt for any reason that direct communication would serve to advance prosecution of this case to finality, the Examiner is invited to call the undersigned at the below-listed telephone number.

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Respectfully submitted,

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